



Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

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JUL 20 2004

Technology Center 2600

SUBJECT: Serial #: 09/822,491
File Date: 04/02/01
Inventor: Chen-Jung Chien
Examiner: Davis, David Donald
Art Unit: 2652
Title: A Way To Improve Hard Bias Properties
For An Abutted Junction GMR Recording Head

RESPONSE TO OFFICE ACTION

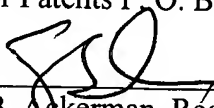
This is in response to the office action dated 04/22/2004. Please amend the
above identified application for patent as follows:

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the
United States Postal Service as first class mail in an envelope addressed to:
Commissioner for Patents P. O. Box 1450, Alexandria, VA 22313-1450, on:

July 12, 2004.

Signature


Stephen B. Ackerman, Reg. No. 37,761

Amendments to the Specification are on page 3.

Amendments to the Claims are reflected in the listing of claims which begins on page 4 of this paper.

Remarks begin on page 9 of this paper.